CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.18/KRIDL/WMM/Shape.T/2016-17 24.11.2016

TEST REPORT ON FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Hebbal Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (East),** KRIDL, Bangalore.
* Name of Work	:	Construction of Cement Concrete pavement roads to Basaveshwara Layout roads in Ward No.18, BBMP, Bangalore.
* Reference	:	EE/H/AE/WO/134/2016-17 Dated: 23.11.2016
* Sample ID	:	Wet Mix Macadam
Technical Reference	:	IS 2386(Part 1) 1963 (RA 2011)
Date of Testing	:	24.11.2016

Sl.No.	Description	Result
1	Flakiness Index	12.63%
2	Elongation Index	13.85%
3	Combined Flakiness & Elongation Index	26.48%

*Information is furnished by the Customer/Representative.

Comments:

→ Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

Note:

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⇒The results indicated above are based on the tests carried out on the samples received in the laboratory

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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T-2377

Job No.: CTCE/BBMP/W No.18/KRIDL/CSR-12/227/Cube/2016-17 30.12.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Hebbal Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (East),** KRIDL, Bangalore.
* Name of the work	:	Construction of Cement Concrete pavement roads to Basaveshwara Layout roads in Ward No.18, BBMP, Bangalore.
* Reference	:	EE/H/AE/WO/134/2016-17 Dated: 23.11.2016
* Sample ID	:	Cement Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{30}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	30.12.2016

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.12.2016	30.12.2016	8.163	496.3	22.06
2	23.12.2016	30.12.2016	8.284	503.2	22.36
3	23.12.2016	30.12.2016	8.369	519.8	23.10

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/W.No.18/KRIDL/WMM/Gradation/2016-17 24.11.2016

TEST REPORT ON GRADATION OF WET MIX MACADAM

* Customer	:	**Asst. Executive Engineer,** Hebbal Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (East),** KRIDL, Bangalore.
* Name of Work	:	Construction of Cement Concrete pavement roads to Basaveshwara Layout roads in Ward No.18, BBMP, Bangalore.
* Reference	:	EE/H/AE/WO/134/2016-17 Dated: 23.11.2016
Sample ID	:	Wet Mix Macadam
Technical Reference	:	IS 2386 (part-1)1963 (RA-2011)
Date of Testing	:	24.11.2016

Oven Dry Wt (gm): **5000**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits As per Morth Table 400-11
53	0	0	0	100	100
45	125	125	2.5	97.5	95-100
22.4	1545	1670	33.40	66.60	60-80
11.2	1025	2695	53.90	46.10	40-60
4.75	560	3255	65.10	34.90	25-40
2.36	485	3740	74.80	25.20	15-30
0.600	475	4215	84.30	15.70	8-22
0.075	595	4810	96.20	3.80	0-8

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/W.No.18/KRIDL/WMM/AIV/2016-17 24.11.2016

TEST REPORT ON IMPACT VALUE OF AGGREGATE

* Customer	:	**Asst. Executive Engineer,** Hebbal Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (East),** KRIDL, Bangalore.
* Name of Work	:	Construction of Cement Concrete pavement roads to Basaveshwara Layout roads in Ward No.18, BBMP, Bangalore.
* Reference	:	EE/H/AE/WO/134/2016-17 Dated: 23.11.2016
* Sample ID	:	Wet Mix Macadam
Technical Reference	:	IS : 2386(Part -4)-1963 (RA-2011)
Date of Testing	:	24.11.2016

Sl No.	Details	Trial No. 1	Trial No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	382	386	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	85	88	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	297	298	
4	Aggregate Impact value = percent fines 100* (W2/W1)%	22.25	22.80	22.52

*Information is furnished by the Customer/Representative.

Comments:

→ Maximum allowable Aggregate Impact value for Wet Mix Macadam is 30%

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